

## Weekly Report

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April 29, 2018

## 1. ECharts

提交了revision。

## 2. 大黑书修订

目前主要还是在看论文，整理可能用到的材料

## 3. VisEvo

和丁师兄谈了一下，他对这个很感兴趣，认为在UED(用户体验设计?)方面会很有用。他们公司有很多时候需要对已有可视化进行一些修改，但所有的修改都依赖于少数一两个人，没有时间去进行编程实现和试验（哪怕很简单），很多时候只能随手画几个草图。如果可以交互的完成这些任务（e.g.整合多个时间段的数据⇒堆叠柱状图/分组柱状图），会很有用。

准备再找实际进行过相关工作的人聊一聊，之前的reviewer意见也有很重要的一条是缺乏focus on target audience

## Papaer Reading

### 3.1 大黑书修订-parallel

[1] A. V. P. Grosset, M. Prasad, C. Christensen, A. Knoll, and C. D. Hansen, “TOD-Tree: Task-Overlapped Direct send Tree Image Compositing for Hybrid MPI Parallelism,” Eurographics Symp. Parallel Graph. Vis., vol. 23, no. 6, pp. 1677–1690, 2015.

[2] J. Beyer, M. Hadwiger, and H. Pfister, “A Survey of GPU-Based Large-Scale Volume Visualization The Harvard community has made this article openly available . Please share how this access benefits you . Your story matters . Citation the Proceedings of The Eurographics Conference on Accessed Cita,” vol. Vi, 2016.

### 3.2 大黑书修订-illustrative

[1] I. Viola and T. Isenberg, “Pondering the Concept of Abstraction in (Illustrative) Visualization,” IEEE Trans. Vis. Comput. Graph., 2017.

[2] V. Prčkovska et al., “Visualization and Processing of Higher Order Descriptors for Multi-Valued Data,” Math. Vis., vol. 40, no. JANUARY, p. 21, 2015.

### 3.3 大黑书修订-in situ

[1] A. C. Bauer et al., “In Situ Methods, Infrastructures, and Applications on High Performance Computing Platforms,” *Comput. Graph. Forum*, vol. 35, no. 3, pp. 577–597, 2016. [2] S. Liu, W. Cui, Y. Wu, and M. Liu, “A survey on information visualization: recent advances and challenges,” *Vis. Comput.*, vol. 30, no. 12, pp. 1373–1393, 2014.

[3] J. Ahrens, S. Jourdain, P. O’ Leary, J. Patchett, D. H. Rogers, and M. Petersen, “An Image-Based Approach to Extreme Scale in Situ Visualization and Analysis,” *Int. Conf. High Perform. Comput. Networking, Storage Anal. SC*, vol. 2015–Janua, no. January, pp. 424–434, 2014.

### 3.4 其他

[1] S. Min, B. Lee, and S. Yoon, “Deep learning in bioinformatics,” *Briefings in bioinformatics*, vol. 18, no. 5, pp. 851–869, 2017.

[2] E. Olshannikova, A. Ometov, Y. Koucheryavy, and T. Olsson, “Visualizing Big Data with augmented and virtual reality: challenges and research agenda,” *J. Big Data*, vol. 2, no. 1, pp. 1–27, 2015.

## Next Week TODO List

- 大黑书修订
- 投稿代码整理

## Works Progresses

TASK	PROGRESS	TODO	ISSUES	DATE
RSATree	等待VIS结果	整理代码		
RSATree专利		准备开始撰写（和两位本科生毕设一起）		
大黑书修订				
VisEvo		idea evaluation		
电子学报	已进入最后阶段			
ECharts论文	已按照review意见修改	敲定细节并提交		
分辨率自适应可视化		学习/咨询相关理论基础		